इंटरनेट मानक

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IS 10926 (1984): Tweezer Terminal Device for Artificial Limbs [MHD 10: Medical Laboratory Instruments]

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Bhartṛhari—Nītiśatakam
“Knowledge is such a treasure which cannot be stolen”

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UDC 615'477'2 : 615'472'4

IS : 10926 - 1984

(Reaffirmed 2002)

Indian Standard

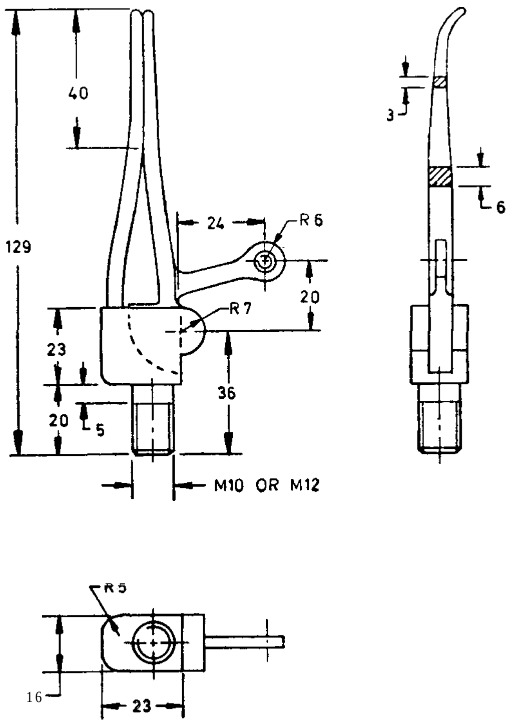
SPECIFICATION FOR TWEEZER TERMINAL DEVICE FOR ARTIFICIAL LIMBS

Artificial Limbs Sectional Committee, CPDC 20; Prosthetic and Orthotic Components Subcommittee, CPDC 20 : 1 [Ref : Doc : CPDC 20 (1712)]

1. Scope -Covers general requirements of tweezer terminal device for upper extremity prosthetic fittings.

2. **Shape and Dimensions** -The general shape and dimensions of tweezer is indicated in Fig. 1.

2.1 The shape and size of tweezer may vary as agreed to between the purchaser and the supplier except that of interchangeable dimensions of screw thread.



All dimensions in millimetres.

FIG. 1 TWEEZER, TERMINAL DEVICE

3. Materials — The tweezer shall be manufactured from any of the following materials:

a) Stainless steel conforming to Designation 04Cr18Ni10 or 07Cr18Ni9 of IS : 6603-1972 ' Specification for stainless steel bars and flats '.

b) Forged mild steel conforming to Designation C-1A or C-20 of IS : 1875-1978' Specification for carbon steel billets, blooms, slabs and bars for forgings (*fourth revision*)'.

c) Brass forging conforming to Designation CuZn42Pb2 of IS : 3488-1980 ' Specification for brass bars, rods and sections suitable for forging (*first revision*)'.

4. Construction

4.1 The movable jaw of the tweezer shall be capable of opening up to at least 60”.

4.2 The working jaws of the tweezer shall be provided with fine straight serrations to facilitate proper grip.

Adopted 26 April, 1984

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NEW DELHI 110002

4.3 The movable jaw of the tweezer shall have a suitable provision for attaching the distal end of control cable mechanism to operate the tweezer (see Fig. 1).

4.4 Provision for attachment of control cable may be made by welding or brazing a lever to the movable jaws. However all welded/brazed joints shall be sound and dressed smooth.'

5. Workmanship and Finish

5.1 The tweezer shall be free from sharp edges, corners and any surface imperfection.

5.2 The serrations shall be reasonably cleaned and sharp to facilitate proper grip.

5.3 The movement of the movable jaw shall be reasonably smooth and without any side play.

5.4 The jaws of the tweezer shall match accurately and register properly to facilitate good grip.

5.5 Stainless steel tweezer shall be passivated and polished bright.

5.6 Mild steel tweezers shall be plated chromium over nickel. The plating shall conform to service Grade 2 of IS : 1068-1968 'Specification for electroplated coatings of nickel and chromium on iron and steel (*first revision*)'.

5.7 Brass tweezers shall be plated chromium over nickel in accordance with service Grade 2 of IS : 4827-1968 'Specification for electroplated coatings of nickel and chromium on copper and copper alloys '.

6. Load Test

6.1 A force of 200 N shall be applied at distal end of the tweezer as shown in Fig. 2. The tweezer shall not be deformed or take a permanent set under the force when applied gradually.

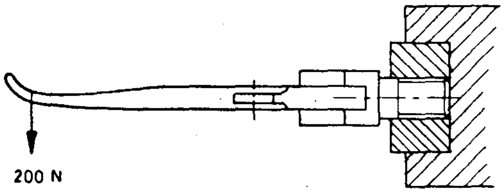

FIG. 2 LOAD TEST ARRANGEMENT FOR TWEEZER

7. **Marking** — The package containing tweezer shall be marked with the following:

a) Manufacturers' name, initials or recognised trade-mark; and

b) With the word 'right' or ' left '.

7.1 *ISI Certification Marking* — Details available with the Indian Standards Institution.

8. **Packing** — As agreed to between the purchaser and the supplier.

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